

Separation of processing roughness from anatomical irregularities and fuzziness to evaluate...

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Effects of fire-retardant treatment and wood grain on three-dimensional changes of sandwich panels made from bubinga decorative veneer

J Rosero-Alvarado, RE Hernández... - *Wood Material Science & ...*, 2018 - Taylor & Francis


The effects of a fire-retardant treatment (FRT) and wood grain on three-dimensional changes of aircraft sandwich panels were evaluated. Unvarnished and varnished panels having the outer decorative layer made with bubinga (*Guibourtia* spp.) were studied. Half of the ...

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Effect of raw material composition of wood plastic composites on surface roughness parameters evaluated with a robust filtering method

L Gurau, N Ayilimis - *Journal of Thermoplastic Composite ...*, 2018 - journals.sagepub.com

This study extensively investigated the surface roughness of injection molded wood plastic composites (WPCs) produced from different amounts of wood flour, polymer matrix, mineral filler, and other additives. A larger range of roughness parameters that used in the previous ...

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A review on wood machining: characterization, optimization, and monitoring of the sawing process

V Nasir, J Cool - *Wood Material Science & Engineering*, 2018 - Taylor & Francis



Sawing is the most common machining process and is present in both primary and secondary wood transformation sectors. The objective of this paper is to review how it is affected by different factors. The current challenges associated with various machining ...

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Surface roughness in relation to altitude of hornbeam wood

M Kiaei, RM Paloj - *Madera y bosques*, 2018 - scielo.org.mx

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Rugosidad de la superficie de madera de *Carpinus betulus* con respecto a la altitud

M Kiaei, R Mosavi Paloj - *Madera y bosques*, 2018 - scielo.org.mx

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Roughness models for sanded wood surfaces

PL Tan, S Sharif, I Sudin - Wood Science and Technology, 2012 - Springer

Abstract The understanding of the effects of variables is crucial to achieve the desired sanded surface quality at optimum condition. In wood surface evaluation, it is known that anatomies on wood surface could distort the roughness value and cause a ...

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Toward a process monitoring and control of a CNC wood router: Development of an adaptive control system for routing white birch

P Iskra, RE Hernández - Wood and Fiber Science, 2010 - Soc Wood Sc Tech

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THE INFLUENCE OF EARLYWOOD AND LATEWOOD UPON THE PROCESSING ROUGHNESS PARAMETERS AT SANDING

L GURĂU - Pro Ligno, 2014 - proligno.ro

Abstract: Sanded wood surfaces contain irregularities caused by both the sanding process and the anatomy, so the anatomical roughness, which is independent of any machining operation, must be excluded from measurements of surface irregularities if the processing ...

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ANALYSIS OF ROUGHNESS OF SANDED OAK AND BEECH SURFACES

L GURĂU - Pro Ligno, 2013 - proligno.ro

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IPL Gheorgheni - 2008 - unitbv.ro

1. GURAU, L., MANSFIELD-WILLIAMS, H. and IRLE, M., 2005. Processing Roughness of Sanded Wood Surfaces. Holz als Roh und Werkstoff. 63 (1) February. 2005, pp. 43-52, ISSN 0018-3768. DOI 10.1007/s00107-004-0524-8. http://www.springerlink.com/content/0018-...

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Effects of plasma treatment and sanding process on surface roughness of wood veneers

C Demirkir, I Aydin, S Colak... - Turkish Journal of ..., 2014 - mistug.tubitak.gov.tr

Abstract: An ideal veneer surface is crucial for good panel properties in plywood manufacturing. The aim of this study was to compare plasma treatments and sanding (mechanical) processes with respect to the surface roughness of veneers. Rotary-cut ...

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Wettability of Sanded and Aged Fast-growing Poplar Wood Surfaces: I. Surface Free Energy

Q Zhiyong, H Chen, Q Gao, S Zhang, J Li - BioResources, 2014 - ojs.cnr.ncsu.edu

Abstract The sanding process influences the surface morphology and chemical components of wood, which are two important factors that influence the surface free energy and wettability of wood. The objective of this study was to investigate the roughness of sanded ...

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[Agrupamento de espécies madeireiras amazônicas para a produção de painéis de lâminas paralelas \(LVL\)](#)

MRS Amorim - 2013 - repositorio.unb.br

Painéis de lâminas paralelas (LVL) são painéis estruturais com lâminas de madeira coladas paralelamente entre si com adesivos estruturais, utilizando elevandas temperaturas e pressões. Foram avaliadas propriedades das lâminas de cinco espécies amazônicas (...

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